# On some SAWFLIES from the AUSTRALIAN REGION (HYMENOPTERA TENTHRIDINIDAE) 

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This paper begius with a general view of the Sawflies belonging to the South Australian Museum, Adelaide, and, in addition, descriptions of some new or little known species in the collection of the same Museum are given. The material upon which the paper is based was submitted to me for study by the kindness of Mr. Edgar R. Waite, Direetor of the Museum. All the types of the new species have been returned to that institution.

The genera and species treated in this paper are mainly arranged according to Rohwer's (6) proposed classification of the group.

The Australian fauna, though very interesting, is so far only incompletely known. It is therefore to be hoped that Australian entomologists, espeeially collectors in the western and central districts, will in future collect more material of this group. The author of this paper will be only too pleased to work on other eollections from the Australian regions.

A LIST OF THE TENTHREDINOIDEA IN THE SOUTH AUSTRALIAN MUSEUM, AND THEIR LOCALITIES.

## Family XIPHYDRIDAE.

Xiphydria leai sp. nov. Queensland: Cairns district.

## Family ARGIDAE.

Trichorhachus australis Westw. W. Aust. : Capel River (W. D. Dodd).

## Family TENTHREDINIDAE.

Caliroa limacina Retz. Tasm. : Hobart and Launceston.

## Family PERREYIDAE.

Philomastix macleayi Westw. N.S. Wales: Dorrigo (W. Heron).
P. nancarrowi Frogg. N.S. Wales: Dorrigo (W. Heron).

## Famhly PTERYGOPHORIDAE.

Pterygophorus uniformis Kirby. N.S. Wales: Clareme River (A. and F. R. Zietz).
P. analis Costa. Tasm. Latmeestom: S. Aust.: (FV. R. Zietr), Balhamah (E. Guest).
P. cygnus Kirby. N.S. Wales: (larence Rives (A. and F. R. Kietz).
P. cyaneus Leach. Quemsl.: Bowen (A. Simson) ; N.S. Wales: Syduey (A. M. Lea), Wentworth (Miss Cushman), Cook's River ; S. Aust.
P. interruptus Klug. S. Anst. : Lucindate (F. Secker and B. A. Fenerheerdt), Victor Habom, Adelaide ( J. (i. O. Teppor), Keith, Tintinata (G. lianand). Bull Tstand; N.S. Watles: Limdifild, Galston (D. Dumbrelt), Sydney (A. M. Lea) , Colo Vale (W. W. Froggatt), Wentrorth Falls (A. Simson) : Tasm.
 tion).
P. cinctus Klug. 'Tasm: Kolso, Lameestom; N.S. Wales: Syoney, bawhom, Ilurst ville, Eden.
P. cinctus, var. insignis Kirby Qrecmsl.: Rockhampon (A. M. Lea), Brishane (R. Illidge) ; T'asm. (A. Simsm).

Phylacteophaga eucalypti Frowg. N.S. Wales: Sydney, bred from encolyptus leaves (WV. B. Gurney).
Diphamorphos apicalis sp. now. A. Aust.: Momnt bofty, Adelaide.
Polyclonus atratus Kirhe. Queensl. : Nomnt Tambonrine.
Eurys laetus Westw. Tasm. : (A. Simson): S. Aust. (Rev. A. P. Burgess) ; Viet.: Mount Buffalo (Rev. 'l'. Blackbmen).
Neoeurys candatus Morice. Tasm.: (radle Momatain (H. J. Carter and A. M. Lea).
N. tasmanicus Roh. Tasm. : Cradle Momentain (H. J. Carter and A. M. Leal).
N. ventralis sp. nov. Tasm. : Cradle Momntain.
N. scutellaris sp. nov. : Tasm. : Hobalt.
N. affinis $s p$. nov. : S. Aust. : Port Lincoln.
N. leai sp. nov. : S. Aust.: Ooldea.
N. pusillus sp. nov. : A. Anst. : Monnt Lofty Ranges.
N. sp. nov.?. S. Aust.: Kangaroo Islaul (J. G. O. Tepper).
N. sp. nov. ?. Tham.: Swansea (A. M. Lea).

Clarissa carbonaria sp. nov. N.S. Wales: Forest Recfs.
C. variabilis sp. nor.: S. Anst.: Mount Lofty ; Queensl.: Brisbame.
C. variabilis van. collaris nov.: S. Anst.: Melrose and Kangaroo Island.
C. variabilis rat. obscurus nor. S. Anst.: Melrose.

## Family PERGIDAE.

Cerealces scutellata Kirby. S. Aust.: Adelaide; N.S. W'ales: Sydney.
Perga dorsalis Leach. S. Aust.: Mount Lofty, Blakiston, Nairne, Adelaide, Reynella; Tasm.; N.S. Wales: Blue Mountains, Sydney.
P. schiodtei Westw. W. Aust. : Warren River.
P. kirbii Leaeh. S. Aust.; N.S. Wales: Sydney.
P. brevitarsis Morice. S. Aust.: Yeelamna, Ardrossan (J. G. O. Tepper), Dowlingville (— Willis) ; W. Aust.: Beverley (F. H. du Boulay), Badgebup.
P. brevipes sp. nov. S. Aust.: Yeelanna, Kangaroo Island.
P. polita Leach. S. Aust.: Balhamnah (E. Guest), Adelaide, Darke's Peak, Nairne, Mount Lofty Ranges (S. H. Curnow), Maelaren Vale (Miss Morgan), Roseworthy (A. Rohin) ; Queensl.: Coen River (W. D. Dodd), Bowen (A. Simson).
P. castanea Kirby. N.S. Wales: Wentworth Falls.
P. esenbecki Westw. W. Aust.: Beverley (E. F. du Boulay), Badgebup.
P. mayrii Westw. Queensl.: Bowen (A. Simson).
P. lucida Roh. S. Aust. (Rev. A. P. Burgess) ; W. Aust. : Beverley (E. F. du Boulay).
P. moricei sp. nov. W. Aust. : Boulder.
P. cressoni Westw. Wr. Aust.: Beverley (E. F. du Boulay), Badgebup; S. Aust.: On mallee.
P. christii Westw. W. Aust. : Boulder (A. Bethune).
P. waitei sp. nov. S. Anst. : Murray River.
P. guerinii Westw. N.S. Wales: Wentworth Falls; S. Aust. : Kangaroo Island (J. G. O. Tepper).
P. ferruginea Leach. N.S. Wales: Sydney (A. M. Lea).
P. latreillei Leach. S. Aust.: Lucindale (B. A. Feuerheerdt).
P. bella Newm. S. Aust. (Rev. A. P. Burgess), Mindarie, Ardiossan, Kangaroo Island (J. G. O. Tepper), Adelaide, Balhammah (E. Guest), Burnside (Prof. Tate) ; Tasm. (A. Simson).
P. bella var. rubripes Roh. S. Aust.
P. rugiceps sp. nov. S. Aust.: Ardrossan and Kangaroo Island.
P. sp. nov. ?. W. Aust.: Badgebup.

Xyloperga halidaii Westw. S. Aust. : Niriootpa (J. G. O. Tepper').
X. amenaida Kirby. S. Aust. : Kangaroo Island.
X. sp. nov. ?. S. Aust.

# DESCRIPTIONS OF AND REMARKS ON NEW OR <br> HITTHE KNOWN SPEOES. 

## XIPHYDRIA LEAI sp. nov.

B Head globose, about as broad as the thoras, not shiming ; rertex ind posterion orbits finely tramsersely striated and eded behind with a thin candiat face and front rotionate; ocelli in a low triangle well below the suprawrbital line: postocellar line a little longer than the ocellowatar line; wellwecipital fine about six times as long as the ocellomar line: midalle forea small and eontinued downwards as a narrow medial furrow, whirh disappears just above the antemae; antemal crest inconsidrable; the antennate 21 -jointed, distinctly tapering towards the apex ; intra-antennal space about four times as long as the antemocular space; scape as long as the third joint, which is as long as $4+5$; pedicel half as long as the third joint; malar spare evidently shorter than the width of the mandibles at the base; clypeus not extending wer base of mandibles, broader than long, above not distinetly separated from the face with finc longitudinal furrows, and with a smatl median tooth; thorax above fincly retionate, not shining ; midelle of the promotum and the frontal part of the middle fobes of mesmotum more sparsely senlptured and somewhat shining: thorax benath sparsely soblpoture, shining: the mesoplenta, however. above more clowely somptured and not shiniug; aldomem very finely striated areos, shining, withont hmedes of loristles on the sternites; apheal sternite profariong broadly rounded.

Head folvous; antennae, tips of mandibles, and a laree spot on the vertex and front dapk piceous; this spot is laterally deeply incised with a pale stripes which reables nearly to the hind margin of the head: a little aloove the antemae the spot suddenty becomes marrower, and extends forwath as a barow stripe for hase of clyens: thonax and legs contirely ochramens; wing hyalint: costa yellow, stigma and other nervores piceons; abdonen ochaceons, genital armature coneolorons.

Long. corp., 9.5 mm ; ; antema. 4 mm : exp. allal', 14 mm .
Quernsl.: Cairns district. A single specimen collected by Mr. A. M. Lea, after whom the speries is named.

This interesting new species seems to me to be nearest to $\mathrm{I}^{\text {r }}$ flanopicta Smith (10, 11) from New Yeatand, and to . L. testacen Moes. (4) from New Gnile a, which I only know from Kirby's figure (1) and from the ver brief descriptions. But the new speces has entirely pireons antemae and ochraceons thoras and alsdomen.

CALIROA LIMACINA Retz.
This species was 110 doubt imported to Australia from America or Eurasia, and is a serions pest on Pyrus, Prumus, and other fruit trees in all parts of the world.

## PTERYGOPHORUS CINCTUS Klug.

Morice (5) was of the opinion that $P$. distinctus Roh., $P$. insignis Kirby, and $P^{\prime}$. zonalis Rolı. are only aberrative speeimens of $P$. cinctus Klug, and I think his opinion is correct.

## DIPHAMORPHOS APICALIS sp. nov.

of Robust; head as broad as the thorax, behind the eyes a little enlarged, finely and closely punctured, with fine and short hairs, sliglhtly shining, behind not earinated; vertex about four times as broad as long, laterally limited by distinet and deep furrows, and in the middle parted by a fine longitudinal furrow; posterior orbits moderately broad; eyes slightly converging downwards; postocellar furrow superfieial ; ocelli in a low triangle, the anterior one in the supraorbital line; postoeellar line about as long as the oeellocular and ocelloecipital lines; frontal area distinct, but not mueh elevated, in the middle slightly depressed and laterally limited by not very deep furrows; below the anterior ocellus a fine impression whieh reaches to the median fovea; the median fovea is small and rounded; frontal erest moderately developed; antennac as long as the abdomen, 14-15-articulated, tapering towards the apex, and inserted close to the elypeus; pedieel as long as the scape; third joint as long as $4+5$; the intermediate joints thickened apically, about as long as on the apex broad; clypeus apparently short, above and laterally separated from the front by distinct furrows ; anterior margin nearly truncate, but, however, apparently rounded; labrum long, semieircular ; malar space very narrow; thorax dorsally almost flat, thinly eovered with some fine, short, and pale hairs, finely and closely punctured, shining; parapsidal furrows not deep; middle furrow almost wanting, and only in front manifest; scutellum moderately elevated, with some seattered punctures; front wings with the costa a little thiekened before the stigma; stigma moderately broad, apically pointed; radial cellule with a very ineonsiderable appendice; the first transversocubital nervure obliterated in the middle; legs with the hind tarsi shorter than the tibiae, and lind basitarsus as long as the three following joints together; abdomen very finely sculptured, shining; sheath (from above) short, triangular, apically with long, eurved hairs, from the side broadly rounded with nearly straight apex.

Head dark piceous: labrum, base, and middle of the mandibles and palpi Whitish yellow; thorax piceous; the angles of the pronotum, tegulat, the hinder sides of the middle lobes of the mesonotnm, hind matrin of the scutellum, and shperior part of the pleurat more or less pale bromish twings haline; hase of the costa yellowish, stigna and nervores piceons; tip of eoxat, trochanters, and legs pale yollow, femora below (hind femora with the exception of the over-side (ark), and tips of hind tibiac and tarsal joiuts brownish; ablomen dark piceous, with the hinder pats of the segments more or less pater brown.
 in the smpranthital lime ; hyopygiun aretately emarginated apically.

Thorax dark piceons, meaty black: on thorax only the upere pant of the pleurae pale brown abdomen wholly dark piceous, only the genital armature pate bown; otherwise as in the female.
 \& 10 mm .
S. Aust.: Momnt Lofty (J. (, , O. 'Tepper), Aclelitide, 1.5.13 (H. H. D. Grifitto). One female (paratype) from Momat Lofty in my own collection.
N.B.-The specimens from Adelaide are more pallid the pallid markings being larger: on the infolded matyins of the abominal dorsal plates.
D. tibiclis is near allied to D. migreseens Roh., but is hardly identical with this speries, julging from the bricf deseription. The clypens of the new species is wot quite truncate, the vertex is parted by a manifest furtow, amt the himd thbiad and tarsal joints are dark apically.

## POLYCLONUS ATRATUS Kirby.

Rohwer (8) salys that the anteman of the female of this species, beround the
 hecanse the ant mane of Pforgophorus ate differently eonstracted. The antenna of the females is 1:3-15-jointed, and the rami are about as lomg as the width of the joint (ef'. Moriees fiy. !, pl. xii, I'terytophores uniformis); besides, the colont of this sperios is otherwise mot ghite hatek, but of a visible dark gren tinge.

Acsordine 10 Konow (3), Ameylonemet Cam. and Cladomucre Smith, are

 withont rami), and the antema of the figme by Kirly (1) is so thiferently dram that, acomding to my opinion, 'IUdomucte canot possibly be a Polyclomes.

## CLARISSA Newman and NEOEURYS Roh.

The differences betweon the genera Chrisse and Neocurys are so insigniti-

but may be divided into some subgenera. Rohwer (7) primarily separates them by the numbers of antemal joints, but Morice (5), having stated the variability of the antennal joint in this group, Rohwer (9) attempts to use the differences in the length of the elypeus to separate Neoenrys from Clarissa, with little success, however, and the thickness and length of the antemae and legs also vary very much. Most species of Clarissu are without metallic colour in contrast with the metallice coloured Neoeurys, but C. anomocerd Roh. and ( 4 . inconspicued Kirby are, among others, distinctly of metallic colour. In this paper the author separates both these "genera" principally on account of the length and thickness of the antemae and legs. See otherwise remarks on the different new species deseribed by him later on.

## CLARISSA CARBONARIA sp . nov.

of Head about as wide as the thorax, viewed from the front as long as broad, narrower behind the eyes, finely reticulated, with fine and short hairs, and slighty shining; vertex very short, about four times as broad as long, with distinct lateral furrows, but without postocellar furrow, in the middle parted by a superficial longitudinal impression ; posterior orbits narrow ; eyes stightly converging downwards; the ocelli in a low triangle, the anterior one just below the supraorbital line; ocelloccipital line about half as long as the ocellocular line; postocellar line about one and a half times as long as the ocellocular line; antemal furrows manifest, but not very deep; frontal area moderately narrow, tapering downwards, the sides slightly elevated from the lateral ocelli to the not very high frontal crest; below the anterior ocellus a broad but shallow impression, which is downards continned as a shallow furrow to the moderately developed, round median fovea; antemal grooves deep; antemae as long as the thorax, 12-jointed; the third joint is somewhat longer than the fourth, the seventh and the following ones broader than they are long, and on the mader-side slightly serrated; supraclypeal area comvex; clypeus short, ahout three times as broad as long, ahmost flat, in the front slightly depressed, the anterior margin in the middle truncated, but the side-cormers stightly rounded; labrum rounded; malar space moderately short; thorax rather convex, finely and closely reticulated, fincly and sparsely hairy, slightly shining ; parapsidal furrows feeble, being only deeper in front; middle furrow in front deep, posteriorly almost wanting: scutellum slightly convex; the radial cellule in the front wing: not appendicnlated; stigma narrow and strongly pointed; in the hind wings the radial cellule with a distinct appendix; legs normal ; the hind tarsi apparently shorter than the tibiae; hind basitarsus as long as the two following joints together; abdomen with very finc transverse striac, slightly shining; sheath from above short, not very broad, and
backwards tapering, but apically not moth pointer, and with some long hairs, viewed from the side korger than the hind tibiad marow, and hehind rathes narrowly rounded.

Wholly black; only the lowest part of the latere with a slight green tinge, the pabpi brown, and the tips of the E.mosa and bases and spurs of the bithew dirty whitish-ydlow; wings infuseated with a darker shate betow the stigma; abdomen wholly black.

Lomg. corp, 6 mm, Exp. alitr., 12 mm, Antema, 2 , 5 mm.
N.s. Wales: Fonst Reels (A. M. Lea).

Probably nearest to Catrata Tumer (12), but the abotomen is wholly black, and also clypens and trochanters, without pale markings. (' unomorera Roh. is at smaller species, with a manifest metallie green tinge on the body.

## CLARISSA VARIABILIS sp. nov.

If Head a lithe narrower than the thoma, narowed behind the eyes, postminely not carinated, rery finely and superficially senlptured, very shining, and with fine and short hairs; vertex abont threc times an brod as long, laterally limited loy farows onemriug distinetly mily in front, and in the middle divided by a shathow longituthal furrow: postocellar furew wating: posterion whits rather harrow; eyes converging towards the clypens; ocelli in a low triangle, the lateral oncs in the sporaorhital line; oceloceipital line abont as ong an the ocelocalar line aut the postocellas line; antemal furrows brow and moderately
 downsards: below the anterion acellas an shallow impression, which is downwats continned as a fine forrow th the oblong and not very great median foreas betwed the amtenate a very obtuse and low frontal ceret ; antemal greoves deep; antemate 10-11-jointed, the thita joint about as long as the fouth and fifth together, the followinge stumer, but longer than broat, and om the under-side ouly
 mearly a dong as broad, Hat, above separated from the liond by a matutest furrow ; tentorial forear small; anterior margin of the elymes in the mithle


 shatlow; middte furow also in front deep, but posteriouly wanting: sentellun
 stigmu narow and strongly pointed; the first recurent nervire interstitial or ncally so; badial cellate in the hind wings trmate and with an apendicular aellule: legs lurmal; hind tarsi a little shoter than the tilitae and hind basilatrs abote as long is the two lollowing joints together; abdonen with fine
transverse striae, slightly shining; sheath from above very short, hroad and backwards broadly rounded, with long eurved haiss apically, viewed from the side long and narrow and with narrowly rounded apex.

Head black, sometimes with a slight shifting of metallic green tinge; labrum, palpi, and front part of the clypeus more or less pale brown; thorax black, with slight green shifting on the mesonotum; prothorax reddish; on mesothorax the sides of the lobes of mesonotum and the plenrae reddish; mesostermum black; metathorax black, and only the metapleurae above reddish; tegulae brown; wings hyaline; nervures piceous, the base of the costa and the middle of the stigma a little paler; coxae and trochanters more or less reddish; legs reddish, the fore femora on their base and the tips of the tarsal joints blackish; on the hind legs the femora, the extreme third of the tibiae, and the tarsi almost black; abdomen reddish, without apparent metallic tinge; the propodeum black, the following segments in the middle more or less blackish, the last segment above and the sheath black; the black spots on the dorsum of the abdomen are sometimes very small or wholly wanting.
o Head more narrowed behind the eyes, and the vertex also narrower than in the female; antemnae somewhat shorter and thicker, and the sutures between the two last joints lardly visible; the aper of the hypopygium broadly rounded.

Head black, with metallic blue or bhe-green shiftings; apex of the clypeus and also labrom and palpi pale brownish; thorax black with metallic blue shiftings; coxae, trochanters, and femora for the most part blackish; abdomen black.

Long. corp.: ㅇ $5-6 \mathrm{~mm}$., of +4.5 mm . Exp. alar.: 우 $11-14 \mathrm{~mm}$., of $10-12$ mm. Antema, about 2 mm .
S. Aust.: Mount Lofty, taken with sweep net (A. M. Lea and J. G. O. Tepper) ; Quecnsl.: Brishane (A. M. Lea).

This speries is probably nearest to C. atrotu Turmer, but is very different in colour. See remarks on the described presumptive varieties of this species.

## CLARISSA VARIABILIS var. COLLARIS nov.

of Hear black with a slight green or aemeons tinge; clypens, labrum, base, and middle of the mandibles and palpi pale brown; thorax black, more or less shifting in metallic green or aeneous; prothorax reddish; the sides of the lobes of the mesonotum and the upper part of the meso- and metaplearae reddish; abdomen wholly black; antemae 11 -jointed; otherwise as in variabilis in.
S. Aust. : Melrose, October (A. M. Lea), Kangaroo Island (J. (A. O. Tepper).

## CLARISSA VARIABILIS var. OBSCURA nov.

of Apex of the clypens, labrum, and palpi pale brown; angles of the pronotmm and tegulae reddish; coxae and troehanters for the most part black; front
 pale; abdomen black; wtherwise as in varimbilis 10.
of Coloured ats in the male of $C^{\prime}$. variabilis m. tyen

 rollaris m.
 distinct difference in their stemeture, and the males colleded in eompany with
 1 know only from 'lumer's desription (12), may probably belong to tho sam spereos, but is diffrembly coloume It is still impossible to elear this entestion



## NEOEURYS PUSILLUS sp. nov.

o Head viewed lion above short and broad. posterionly moderately

 as lomes, abmost Hat, and withont median furow, and baterally not very disfinctly limited : postocrollar furmow distinet, but not very deep; posterion orbits moderately developorl; eyes bond oval, a little converging towards the elypus; acelli in a very low triande, the !ateral ones in the suptambital line: postocellate
 ats lome as the ocellocerpital lime; the front apparemtl! broat and compex and the lateral furmos entred; below the anterion ocellas a shallow hut mot vely Harlow furow which downwards is sommected with the moderatery deep, "hongate median tovea; frontal rest low: interantemal space abont twioe as

 as the pedimel; thime join about as longe as the two previons joints pogethere
 1heir breadth, but diminish by derpees in bength, and ate at little boader on

 moderately long, laterally rather shandy limited by the deep teltoriad foveate clpens abmost flat and in the tomot depressed, about wice is borad ns low, fiont marigin moderately romoded, and the elypens well definced above bey the distinct suplatsypeal furoor: labrom moderately short, apically broadly romaded; malate space about as long as the seape: deeks monerate: thoran mon.
revy convex, very finely reticulated, with fine and shont hairs, monerately shining ; parapsidial fumows distmet, lont only ou front deeper; middle lobes of the mesonotm only in liont distinetly separated, very little convex; sontol
 tapering; wings moderately long; stigma strongly dapering to apex; badial collule withont appendice; the first rearent nervare interstitial with the fiss

 hind tarsi about as lome as the tibiae, hind hastarsus a liftle shomet that the following joints, and the immere spur of the hind thate about half as long an the hasitarsus: ahdomm elongate, posteriorly eompressed from the sides and pointod, very finely transersely striated, very finely hairy, mather shming: sheath viewed from above exserted moderately far, very namor, still narower towards the base, behind almost truncate, viewed from the side moderatels fong and narrow, below stightly charginated, with rather broadly rounden apex, ind fumished with some very short hairs.

Head abowe tonards the antemae with a distinct, metallicenprenns tinge: below the antemae, howeres, btad, bot clymes, labom, mandibles, and matat space falsons; palpi grevish, ind amtemat back with bellow seape; tips of mandibles brownish; prothorax and tegntale fulsons; thomax othervise anreous; ensare trochaters, and legs fulvome the Inwor part of hind femord, the mastrom part of the hind tibiate, and the tatsi more or less gresish infoseated: wings almost hyaline, nervares pale brown, stigma pale testaceons; abdomen above batek. withont risible metallic tinge: the two last tererites more or less and the sheath basally filvoms: the infolded marwins of the tergites and the vonter fulvous.

Loug. mop. 3 .万-t mun. Exp. alar., 8 mm .
S. Anst.: Momb Lofty Ranges.

This species is probably nearest to "(?larisso" inconspienu Kirby whioh I know only from Kibby's (2) and Twner's (12) very brief descriptions. lont is, among nther features. very differently eoloured, and is meally allied to the hitherto known Neomerys species, bat has shortor and a littla dhicker antanma and lomger elypens.

## NEOEURYS LEAI sp. nov.

of Head a little namower than the thorax. finely retimbate, finely and shortly hairy, shining, viewed from above short and broad, behind the eyes moderately marowed and behind slightly arcuately marginated, viewed from the front a litfle broader than long: verex about four times as broad as longe, latemally well limited by the distinet and divergent vertioal furrows, and in the


 longer than the neploculat line: ofellar hasin mather distime ; wes wal, stightly converging towats the clypens; tiontal area broat amd moderately convex: middle forea long, oval, moderately dexp, and contimued ipwards as a shallens

 ahome as long as the thoms, ! jobuted, not distimetly thekmed towats the apex, and only slighty servated below; siapm about as long as broad; perliod a little
 abont one and a half times as long as the fouth; all foints longer than bruad : las




 sidal furmon and median formow onty in fout distimet: prasentellar formw slighty enmed: scutellum nealy triangular. with a finm longitndinal west behind: lege moderately longe: hind thime abont atome as the hind tarsi ; hind basitarsus abont as long as the there following goints theether, wings bathor long and Harrow: stigma long and acominate: radial wellale withont anmondientar



 moderately loug, apieally compressed from tho sides, findy retimbate, very finely and shortly hains, somewhat shining; sheath riewod from ahove bong. exserterl, very narow, slightly thimened backwates, romblad an the aloes, and with sombe not vere loug and omped hais, viewed from the side bather lome not vers nateow, on the apex bedow somewhat romally axeised, and the mone and conseflemotly wother ammanated.
 part "f the "lypens, lathom, hase of the mandibles and patpi pate bownish; lage backish, with knees, bibiace, and tarsi wallowish; the hind fomora nealy wholly hack, and the tips of the hind thate and tarsal joints blackish: winge heyalime: stigma and meveres brown; hase of the stigma and mestia yedowish; : Andomen black, withont suidenf metallic colome.

S. Aust.: Ootrlea (A. M. L. CH ). Thuigum.


 sides shoghty exered belind and on the head and thomex mone medalle eotomed, and besides stomerer and more robust.

## NEOEURYS AFFINIS sp. nov.

P Head viewed from abore short and brotd, and behind arcoately: anarginated, behint the eses moderately mowed, viewed from the from aboul as broad as lomg, but towarts the dypens very converging, finely reticulate, findy: and sparsely hairy and somewhat shining, vertex short, about thee times broder than lome, slight? comvex. in the midde not divided; latnal furmes indistind

 the ocellocepistal line and a litthe shorter than the posturellar line: wes large
 a semicircular impression; fromial area hroad, bather ponvex, with broady rounded sides; lateral furnows only near the antemae deen; median foved rather small and longitudinal; frontal erest not devoloned: interamtemal space abmit twice as long as the antumbentar space: : antemae 8 -jointed, abont as long as

 longer than hroad; thiod joint ahont one and a half these as long as the fonrtlo: all joints longer than brode last joint abont thea dimm longer than buads supraclypeal area long and anvex: clypens onls abont twiee as broad as long, basally somewhat comvex, but apioally fepresered. Pront margin straght, and the side-comers obtuse; supraclypeal finrow indistimet: tentorial fovear rathor small: labrum moderately long and apically broadly romded: mandibles not very what: malar spares a litfle lomger than the swape thorax moderately ronves, very finely striate, funcly and sparsely hairy, somewhat shining; parapsidal furtows moderately deep: middle finrow of the mesonotum in front moderately
 formow semisirenlar; seutellum behand from the sides a little mompresed and somewhat angulated : legs moderately long; hind tibiae a little showter than the himd tarsi, and the hind basitarsi about as lomg as the thow following joints. together; the inuer spur of the hind tibiae about half as lome as the basitarsus: winge rathor long and slonder; stigma orial, morlorately loug and achte; matial cellule in the forewings withont apmondix; the lwo finst robital ceplnes ergal in longth, the thim mearly metangular and a bittle longer thath the seront; the firge


 and very spabsel hairy somewhat shinime; shath viewed from above bather
 ardminate, and with some hot fery long and enved haies on the apex. viewed fromin the side long, the lower margin nearly straight, aud the apex rather marowly mombed.

 lumownish; legs testaceons with cosace thorhanters, the base of the front fomora, foothinds of the himd femona, tips of the hind tibiade, and the tarsal joints more
 the stigma and costa pale rellowish.

Long. colp. 3-5-t min. Exp. sidat, 7-8 1161 .
S. Anst, Port Timenh ( $A$. M. Lea) .

The 8 -jointed antemate are, in tbis genns, monommon, but I lesibate lo wrate a now emms or sulgemus for this species ouly on aceount of this, perhaps not constant ahatactor. Clarissat ammomert Roh., which also has S-jointed

 stigma dark hown withont paler hase, and hind tibiae without blackish tips.

## NEOFURYS SCUTELLATUS sp. nov.

of Hend a little harmore than the homax, viewed liom above shont, behind the eyes apparembly narowed, viewed from thr front lomger than broad
 sertex about fonm times as broad as long, laterally limited by distmet formos, and in the middle divided hy a shallow lomethetimal furmo postocellan formow distimet, in the middle a litthrmed formands and on the ontsides of the lateral

 ones immediately above the shpmombital lines: ocelloceipital line abont twice as Iong as the ocellombar lines when is about as long as the postrectlar line frontal area broat and appatobtly romver, with broadly romeled sides: below the

 Frontal erest wot tistinotly deromped; interantemal spare abont there times as


Hhekened and not distinetly serratiod (hbe laft with eight, the right with only two joints, all the rest broken off) ; seraje abont as broad as lone: pedicel a litho longer than the seape; thired joint about one and a half tinces as fong ins the fourth ; all the others distimetly longer than home suppolypeal area modreately long. conves; lemorial forpan ather small but deep: clypens abont then times

 moterately long, apically buadly rounded; mandibles wather bobust malar spaw about as long as scape and pedicel together; thorax rather sonvex, fome striate, funcly and shorly hairy, staning; parapsidal formow distinct, but mot vary dexp; midde furrow only distind in from, posteriorly watine: prab-

 little shower than the hind tansi h hand basitarsus as lomg as the the following joints agether: front wings with the radial cellule withont amperdix: stignet bather long and wot wory much anminate, broadest on the midhlw, and with borodly rombdel matemargin: second embital melne, ahout as lous as the first and omly a little shower than the thitd first reenbent movire rewived wat the first tramstersombital mervare, the second reweived in the basal fometh of the
 abdomm rather long, from the sides apically compressed and somewhat aeminatod; finely reticulate, shining, sheath viewed form above brond and lomg,
 not wery long, almost straght hats, viewed from the side long and harow, with slightly exeised under-margin, backwards rather narmow! rounded, but whiquely:

 fwo first joins of the amtemar, malar space, base of the mandibles, labrim, and
 shiftinge, and with a fulvous spot on the sides of the feont pate of the middle lobes and on the side lobses near the wings; mesoplentan and mesosterum
 plentac palc brownish: logs more or less male bownish, and with vellowish frochanters and lences: wings healine; stigma and nevolues browish; base al the stignal and mervares hasally pale yellowish; aldomen fonvons; the dolsim, areght the last sequent, blackish; the extreme point of the sheath hack.

Lenge corp., 5 mm . Rxp. alar., 11 mm .
Tasm.: Mobant (A. M. Leal), The type is not in good condition, lmu is no dombt a distinct species.

## NEOEURYS VENTRALIS sp. nov.

of Had ahout as wide as the thoms, viewed from above short and hroad, seen from the front a lithe broalde than long, bomind the eges a little namowe
 and sparsely hairy, very slightly shining; vertex very short, about four times as boad as lomg laterally distimedy limited by not very dep lateral furmos. in the middle with a very shight lomgithdial impussion; pestocellat formw wamt. ing; ponterior obbits moderately daveloped; acelli in a low driangle; the bateral





 impressed median fover : front bolow the medim foven almost lat fromal west not developed; antemae 14 -juinter, shmoler, about as long is hed and thons

 as long as browl thibd joint longer than the fomth; the following joints

 bange: dypens alout there timos as broad as long. almost flat, with rombled sidefoners, and with a very small momand incision in the middle of the feront margin: sumady ynal furow indistinet; labrom moderately long, and with
 monst; thorax moderately monvex, fincly edieulate, and with some hartle motion-
 moderately deep: midule lolu of the masomotum in feront with a derp middle forrow, missing behind: sentellam bodhand attle emmpessed from the sides.

 shartor than the bollowing jointe fogether: winge hong and proportionally stender:



 midalle of the disedidal eolluls: ubdomen findy tranversmediculated, and with some moderataly small remote pmothere. somewhat shining: sheath viewerl from

apex, and with some long and curved hairs, viewed from the side moderately long, slightly emarginated below and rounded behind.

Head metallic, with more or less intense cupreous or golden gleams; antemme black; scape, labrum, and palpi fulvous; thorax metallic-green, with cupreons gleams on the mesonotum; legs fulvous, their hind femora more or less black with a slight metallic gleam; the tips of the hind tibiae and the tarsal joints slightly infuseated; wings almost hyaline; nervures and stigma pale brownish, with the base of the stigma and costa pale yellowish; abdomen on the base of the dorsum black, with a slight greenish tinge, apically and underneath with the sheath fulvous.

Long. eorp., 5 mm . Exp. alar., $10-11 \mathrm{~mm}$.
Tasm. : Cradle Mountain (H. J. Carter and A. M. Lea).
The scape in one specimen is black and the femora more fulvons.
Nearly allied to $N$. tasmamicus Roh. and N. caudatus Morice, but differently coloured. This species cannot be only a colour variety of those, because the sheath and the saw are differently shaped. Hitherto the males of these species could not be distinguished one from the other with certainty. See Morice's (5) remarks on the males.

## CEREALCES SCUTELLATA Kirby.

The female of this species and gemus was hitherto unknown, and may be described as follows:

Robust; head a little narrower than the thorax, behind the eyes apparently dilated, coarsely and very densely punctured, with very short and feeble hairs, slightly shining, only on the posterior orbits more sparsely punctured; vertex a little broader than long, laterally defined by manifest furrows, but postocellar furrow almost wanting; eyes small, oval, parallel; posterior orbits moderatel, broad; ocelli in a low triangle, the lateral ones just below the supraorbital line and a little elevated, but the anterior ocellus a little impressed in the front; postocellar line about as long as the ocellocular line and somewhat longer than the ocelloccipital line; frontal area not very apparent, in the middle a little depressed; median fovea rounded and moderately deep; frontal erest very high; antennal furrows manifest; antennae low, inserted near the elypens; antennocular space about a third of the interantennal space: antennae shorter than the thorax, dilated apieally and somewhat club-like, 10-jointed, but the three last: joints not very distinetly separated ; the third joint a little shorter than the fourth and fifth together ; the third to seventh dilated on their ends ; the three last joints as hroad as long ; face below the antemae short, in the middle depressed, laterally elevated and limited by the deep tentorial foveae; elypens abont three times as
 fromt mokerately exeised; labrm small, apically romdem; mandibles rohoust; matar spame liusar; thoman roasely and donseds pmetured, very findy and sparsely hairy, slightly shining, moderatels monvex ; monotmo in tron depressed, in the middle transurese striate, bedimd elevated and posterionly derply margin-
 Wanting behind; mesmotum malyinated hehind; sututhum atmost plain, in tho midde divided by a deep momitndimal furrow. the androrior furow deep and a
 produed into shambr-pointod lobes; hind tibise apparently long, slighty S-aneved, at. the hase and apex thiekened, with a small kothe belind botween the first and middle third, and with a middte sjum in front between the midde amd
 half as lomg as the tibiar ; bantarshs shometer than the two following joints together: dans simple: lown wings with a small appendienlar radial cellute; the second recurrent mervire nearly interstitial: propodemm sharply transversoly striated, dull; abdonen nearly retindrie and finely transersely retienated, slightly shiving: sheath from above apparently shot and hardy visihe, hrad, posteriorly romaded, and with sme lomg hairs, viewed from tha sidn moderatels. long and apically strongly romded.

Head black; a small spot on the hind angles of the vertex, a long stripe on the posterior orbits, a small spot ahore and below the autemae, a little larger spot between the antemae amb the wex and the hind pard of the dypens yollow; the base of the matudibles and palpi brown; thotex bame; the lateral and hith margins and the angles of the pronotum. the latral margins of the side-mobes of the mesonotnm, as yell as a small spot on the midale of the mesopleurae, and the parapterm, the epimera of the mesoplentae ald yellow; tegular pale hown; seatelhm brown with pales matgins: waxe on therir lips and the trowhantos more or less pale yollow: frmona hadk; the intermodiate femora above with at pale stripe and the hime femora brodly striped with rellow above, bat the kues back; tibiae and tarsal joints rellowish, with brownish tips on the hime legs; wings slightly vellowish: norvores and stigma dark picemos; the hasal half of the costa and hase of some other neromes yedlowish ; aldomen piorons: the second and sixth (ergites behind broadly margined with wellow, and the other tergites in front and behind a little paler beromish; venter more or lese pale brown shath posterinily brown.

Long. eorp., 14 mm . Exp. alal., 25 mm ,
The single female was eollected at Syducy, is mom mone roblost than the male, and reminds one of some species of Pergus.

## PERGA DORSALIS Leach.

l'ery mfinis Kimy is certainly not a disthet species, rather only a variety of P. dorsultis Leach.

## PERGA SCHIODTEI Westw.

The female derecribed by Westrood (13) in his monograph is apparently
 the true femate briefly: giving information maly concerning its colour.

Heal a liftle narower that the thotas, from above short, and behind the
 penctured and shining, spasely and very finely hairy; rertex nearly as wide as long, stighty convex, on the sides sharply limited, in lront defined by a slight postocellar furrow, and in the middhe divided by a slight fongitudinal furrow; posteriom orbits moderately developed; exas rather large, slightly oral, parallel; ouedli in a moderate low triangle, the lateral ones just below the supranhital lime; postomellar linc abont an long as the ocellocular Fine, and somewhat shorter than the onedloweipital lime; the anterior ocetlus impresed in the front, and the lateral ocelli prossed outwards by a sharply-edged erest, which hegins in the middle of the lrone margin of the vertex, these being downwards broader, higher, and ultuse, alld passing to the antemate; below the anterion ocellus is a mot vers deep groove, downwards contimud as a namow furrow, which trawsses the moderately somex face to the clypens; antemal furows manifest ; ant mata abont as long as the interombar space, 6 -jointed; the intermediate joints longer than hroad; cypens about four thess as hroad as long: in front tromeate, with some moderately great but remote punctures, very shining; labrum abont semicireular; malar space very shore; thorax coasely and densely puestured, ahoost dall; sentellnm with somb lange bit remote punetnes, shining, and without middle furow ; forewings with the third anbital nervure strongly curved and tha first not obliterated; the hind tarsi of the male about as loog as the tibias of thw femald apparently shorter ( $6: 6.5$ ) ; abdomen with some fine punctures, on the fropodenn very finely reticmate, shiming, shath from ibove short and not very broad, behind mealy trmeated, with dense, but moderately fong hairs, viowed trom the side strongly curved, but apically trumated: hypopygimm of the mate: frimeated behind.

The metallic gleams on the side loben of the mesobollum thet the dotstm of the aldomen are only evident in sonce aspects. The figure in Wrestroods paper is very gom. In the female the hind tibiae on their last thirl are blamented.

Does this speries in fact ocemr at Adelate, in South Anstralia, as Westwool writes? The Sonth Anstralian Mnsem possesses no specimens from
sonth dastatia. The above deseribed sperimens were collowed in Whatorn Anstralia (Warren River), and all the specimens described by Morm wer from Western Australial (Swan Rivere).

## PERGA BREVIPES sp. nov.

O Head lrom ahove shom, from the front depressed and abont as long ats wide, behind the eyes a little dilated, with remote but laner pandernes very shiming, moderateds hatiry: vertex large, a little hooder than hom; batcrat

 downwadda; ocelli in all apparently low triangle, well below the sumanbital him;
 Whout one and a hatf times as long as the postocelan line: bedow the anterion
 almest plain triamgulat area; antemal crest wanting, but above the anteman a moderately broad and high erest upwatels, being enlarged, and bey degees dinappearing below the latoral ocelhs; antemal fincows moderately deep: antemate a very litue longer that the distane botwest them, 6-jonted, inserted near the aldpens; seape broad, and alon! Wwies longer and distinctly broater than the pedicel, which is much broader than loug: the following joints are short, but the Hhird and konth distinctly Jonger than their width; the fifth about as long as the width of the apex ; the sixth "hblike and as long as the the previons, ionts together; tentorial foveace not vary deep; clapeus ahout four times as broad a long, ahoost plain, in front not very deeply margimated; labrimu morderately
 and apparenty convex, largely and densely panctured, yery slighty shininge, sparsely hater; parapsidal finmows moderatels deep, median furvow in front dere, but wanting behind: side lohes of the mesonotum with two longithdinal Ennrows, and on the sides samewhat carinated; seatellum latge almosi flat, largely but mot vers dosely punctured, and more shining than the rent of the
 curved; hind tarsi short, shorter tham the half of the hind tibiar; himd hasitarsus a little longer than the three following joints together; abdomen atmost horad, a litte demessed, and belind a lithe eompressed trom the sides: propodenm rabrsely and densily punctured, and with apparently dense haiss adodomern otherwise with rere fine reticular and shining ; sheath viewed from above moderately Harow, shom, with nearly patallel sides, posterionly trumeate, and with long and emved hatrs, from the sides not very longe, strongly durved, but on the apex straghtly exeised.

Heal pale brownshoyellow; mandibles on the aped piceons; front with it hatekish spot round the oedli; the mothorax, the posterior corner of the middle lobe of the mesonotmm, the margins of the lateral folses, the seutellim, aud the mper parts of the plequat all yellowish; meso- and metastermm barkish, amt the hind coxae more or less piceons, wing yellowish, norvores yellowish-brown. the stignal in the midde darke brown ; abdomen pate yellowish brown; in some specinens the dorsmo of the abdomen almost entirely bladkish, with viohacons gloams in dertain lights; in other specimens this spot is more or less reduced, sometimes to a ntintow dark line in the middle of the abdomen ; the midele of the venter more or fors intuscated the base of the sheath piecous.

Long, corp., $17-21 \mathrm{~mm}$. Exp. alar., $36-40 \mathrm{~mm}$.
S. Aust, : Yeelamma (W. J. Spafford), Kangaroo Istam (.J. G. O. Tepper).

In Morice's table of the geuns Perga his new speries rmes to belimtu Kirby or to the klygii gronp. $P$. belindu kirby is very differently coloured, the himd tarst are long, and the first cobital umoure is nearly obsolete. the the fogit group the antemae are longer in all species. P. llugii besides has the sebtellum impunctate, $P$, lionboit Lemelt has a dense and rugose punctured scutellum, which also is bisected by a distinet longitudinal impression, $I^{\prime}$. brentarsis Morice likewise has the seutellum in the middle biseded and with ouly very lew and hardy. noticeable punctures, and $P^{\prime}$. "unutu Morice, ats the last, has the hind tarsi of normal length.

## PERGA MAYRII Westw.

In some specimens of this species the seutellom is wholly back.

## PERGA CRESSONI Westw.

The abdomen of this species is sometimes more or less blackish.

## PERGA CHRISTII Westw.

The antenace of this species, which, ateording to Morice hitherto mot described, are very short and pale sellow, with infuseated seape and pericellum.

PERGA WAITEI sp. nov.
오 Head lrom above short, romsiderably more slemer that the thorax, and behind the cyes a litule narowed, viewed from the front about as broad as long, sparsely and shortle hairy, coarsely but more or less remotely punctured, shiming: vartex large, a littheronder than long, moderately comex, in the midde divided by a distinet bongitudinal finrow, and with some eotarse punctures; vertical furows deep; postocellar farmow latrally distinct, but in the middle



 is in the midde impressme and lateratly edged with not vory high but formatas





 bons, and the sixth joint as long as the thee provinns joints fogether ; supraclypeal aroa shot, in the midelle conteave, amd laterally limited by moderately

 and wilh ahlighty fombated sidemombers, and basally limited by a mathifest


 exeised, with an apparent, nhtose side-bump, and an thr side-angeres more
 hat posterinely wiznting: side Jobos of the mesomothm on the sides with a distenct






 of the hind tibis, and the hind basitarsas longer than the there lonlowing gomes







 batekish with a faint bhe tiage; tipe of the mandibles piecoms; thorax blatek with


of the tateral lobes marked will gedow; seutellom and hind-comers yollow; mesupheman yodow, bat meso- and motasterna black; metaplemac marked with vellow; wings hyaline, with a slight yellowish tinge; costa and basen of the "ther nurvures yellow, but stigma and the rest of the nervores beomish; legs gellow; hasses of the middle and hind roxat blackish; coxac and trochanters otherwise yellow; ablomen dorsally and ventratly broadly back, with bhish gleans; base of the sheath hatekish,
loug. corp, 19 mm, Exp, alar., 36 mm .
S. Aust.: Murlay River (II. S. Cope). [nique.
 soloured and pmothed, and hesides is larger and more robnst.

Nimed in honome of Mr. Effgar R. Wate, Disector of the Somth Ansitratian Museum.

## PERGA MORICEI sp. nov.

of Head a lithle marower tham the thoms, behind the eyes mot marowed, densely and conrsely pmetured, with moderately demse and short haibs, almont dall; wertex mage, slighty comex, about an broad as long, th front a little broader than behind, ju the midde with a moderatery derp) longitmelinal fursow; lateral furons and postocellat furrow deap; himd whits moderately developed; lateral oredli just betow the suppoothtal line: ocellowipital line ahout one and a halt times as long as the ocollocular and the postoceltar lines; the anterion seellus : litue impressed in the frout, and suromoded be a distioct but not very deep formow, which is comtinued forwards as a broad bat moderately deep formor, and reaches the elypeus: frontal aest high, but not very shatp; in the midde broatly and dedply intermpted; lateral foreas distinct; ayes oral, modaratedy large; antmone 6 -jointed, very little longer than the interantennal sate; the seape is longer lout not much broader than the pedicel, which is broadm than long, the last joint a little longer tham the there previons joints together; shmeras. dypal ara modrately short and laterally limited be longitudinal erests; Mypens ahmost flat, abont three times as broad as long, with some remote pmestures, in front hoodly: but shallowly marquated, and with a shallow, lithle eurved transwerse impression, and with monded side-corners; basally limited by a distinct finrow; biblom moderately long, apically boadty romeded; matar space short; mandibles romst: themas moderately convex, densely and mgosely punctured, sparsely and shortly hairy, almost dull; pronotum short, behind
 fourows distined, but not dery; median furow distimel, hat behime wanting, and lhe hind envere of the middte lobe withont purctures, and shintity: lateral lobes laterally shambly maned; sembllmm atmost fat, with some remote bat coans
pmotures, and in the midde with a shallow longitudiual furwor, shiming ; ment plentae and mesostermm with coarse but not very dense punctores, shining; forenings with a moderately latge radial appendiculat bell, long and actuminats
 nervure not very strongly eurved; hime tarsi somewhat shoter that the hild tibiare, and the hind metatansmas long as the two following joints togedher; abdomen very fincly retientate, and the tergites besikes with remote poneture (on the hind margins, sparsely and finely haire, and revy shining; the abolomen on the aper a little e:mpressed fiom the sides; sheath viewed fion above sutall: but ditated backwards, and bedind slighty tromeated, and furmished with somb. moderately lone and etored hairs, viewed from the side long, and stomgh enved apically.

Head pale chestmot-brown; the antemate dark brown, and the tips of the mandibles piecons; the midele of the vertex, lateral parts of the lateral orbits, supraclypeal area, elyenc, and labrum yellowish; thorax pale "hestunt-hown; the pronotmm and teandae, the hind eorner of the middle lobe of mesonotum. seutellum, postsentelhm, and plentate ydowish; forelegs, brochaters, and woxat rallowish; the hind leas. datk (hestath-hown: winge slighty yollowish, stigma and nervuces more or less bownish; alolomen dorsilly pale brownish, ventratys yellowish.

W. Aust.: Boulder, Jam. $-24,1899$ (A. Bethume).

This new species is probably nearest to $P^{\prime}$. befimde Kirbs, bat is latger, the thorax palder yellowish, and the head behind the eye with blackish spots. Morice (5) states that the hand tarsi are palle, but Kirby (1) deseribes them an reddistachestmut. The satw of the new species differs very much from the salw of I'. belimfly (aceording to Morier"s photngraph), and is more like the satw of P. esenbceki Westw.

Named in houmm of the Rex, F. D. Morite who hy his trpe-studies of the Anstralian mathes has very muth rontributed to the buowledge of these interesting inseets.

## PERGA RUBRIPES Roh.

 Pr. bella Newm.

## PERGA RUGICEPS sp. nov.

of Head broad, nearly as broad as the horax, behind the eyes smewhat dilated, above wholly coarsely rugose, dinll, on the lateral orhits and below the antemate more remotely punctured and shiming, with stom remote haise wertex large, somewhat conses, abont as hoad as long, in the midtle withont manifes furcow; vertical furtows distinet, but not rery depp; postocellar fimow shallow;
posterior orbits large; lateral ocelli a little elevated in the supraorbital line; the anterior ocellus impressed in the front, and surrounded by a distinct furrow, which is continued forwards as a moderately broad furrow; ocelloceipital line considerably longer than the ocellocular line, which is about equal in length with the postocellar line; frontal area narow, moderately depressed, and laterally limited by not very high erests; lateral foveac distinct; eyes oval, moderately large, parallel; antemae 6 -jointed, low inserted, a little longer than the interantennal space; scape evidently longer, but not much broader than the short pedicel; the three following joints very little longer than broad, and the sixth about as long as the three previous joints together; fromtal erest not very distinct, and incised by a moderately broad furrow; supraclypeal area short; tentorial foveae moderately deep; clypens short, about three times broader than long, in the middle of the anterior margin slightly incised, almost flat, and with rounded side-corners, hasally limited by a deep furrow; labrum short, apically broadly rounded ; mandibles robust; malar space rather short; thorax moderately convex, coarsely rugose, dull; pronotnm short, and behind deeply enrarginated; parapsidal furrows distinct, moderately deep; middle furrow deep, but posteriorly wanting; posterior corner of the middle lobe shining; lateral lobes shallowly furrowed and laterally sharply margined; scotellom almost flat, with some coanse, remote pmotures, and in the middle with a shallow longitndinal impression; hind-comers moderately small; mesoplenrae rugose; mesosternum remotely punctured and shining; forewings with an apparently large appendienlar cell; the first transversocnbital nervine distinct, the third strongly curved; stigma moderately long and acuminate; hind tarsi longer than the half hind tibia ; hind basitarsus as long as the three following joints together ; abdomen a little depressed from above, backwards acuminate and compressed from the sides, very fincly transversely reticulate, and with some shallow and remote pumetures on the lind margins of the tergites; sheath from above apparently short, narrow, rather acmminated backwards, moderately hairy, viewed from the sides long and rather strongly enrved.

Head dark chestmot-brown, the middle of the vertex, lateral orbits, antemal crests, antemac, and the face below the antemade paler yellowish ; thorax chestnutbrown, the tegulae, hind corner of the middle lobe of the mesonotmm, seatellum, and mesopleurae pater yellowish; legs yellowislı; the apices of the hind femora, tibiae, and tarsal joints infuscated; forewings somewhat yellowish, with pale brown stigma and nervures; hindwings almost hyaline; abdomen above pale brownish, below paler yellowish.
of The forewings are more curved near the stigma, the stigma is a little less acnminate, the abdomen is more depressed, and the last ventral-segment is moderately long, behind broadly ronded, but in the middle slightly simated. The dark spot on the head is more blackish, but the vertex wholly pale, the middle
and side lobes of the mesonotim in the midde backists; otherwise as in the fomale.

Long. corp. Lio-18 mu. Exp. alan', 30-31 mm,
S. Aust.: Ardrossan and Kangaroo listand (J. G. O. Tepper).

This species seems to be nearest to $P$. belimd Kibly lout the antentae are mot black, the tips of the posterione femora, tibite and tarsal joints are distinetly Dlackened ; the Utiod to fifth joints of the antemate are as long as broad.

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